

NOCC SUMMARY

057-00-8164-16

November 01, 2000

06:30 AM 11/01/00

Briefer's Name: Ray Poythress

Significant AF Item(s) in the DAILY ALERT 2

Equipment Related Delay(s) per OPSNET 516

Other AF Related Delay(s) 0

FAA Equipment Related Delay(s) 516

SIGNIFICANT EVENTS 11

LOSS OF REDUNDANCY 10

TOTAL NUMBER OF REPORTS 31

COMMISSION 0

DE-COMMISSIONING 0

REPLACEMENT 0

VIP 1

The Mission of
the National Operations Division is to manage and enhance NAS services from a national
perspective ensuring safe and efficient operations through NAS infrastructure management

EQUIPMENT OUTAGE REPORT FOR 11/01/2000

Start date Start time	Facility Ident	Delays	Outage Type	Equipment	Duration	End Date	End time
10/31/2000 2105	INDIANAPOLIS, IN ZID	516	Facility/Service Outage	ACEPS	6 hrs 55 mins	11/01/2000	0400
<p>At 4:05 PM EST, the Indianapolis, IN (ZID) Air Route Traffic Control Center (ARTCC) experienced an internal critical power problem that interrupted all air/ground communications, radar displays, and automation systems. Operations declared ATC Zero and activated the ATC contingency plan. The Air Traffic Control System Command Center (ATCSCC) coordinated a national ground stop for traffic to and through ZID airspace.</p> <p>The input commercial power breaker in the Power Conditioning System (PCS) was found tripped on bus "A". Three out of five modules (2, 4, and 5) were found tripped off the critical power circuit, opening the path for the batteries to provide critical power. Module 3 was off line, and it was found tripped also. The Engine Generators (E/G)'s started but did not come on line. The specialists had to manually adjust and stabilize the four (4) E/G's prior to placing them on line to restore power to the critical bus at 4:07 PM. The facility was placed on Engine Generator (E/G) in bypass mode, without the ACEPS Uninterruptible Power Modules (UPM) online; commercial power is not available in this configuration.</p> <p>At 4:07 PM, operations transitioned to Voice Switching Control System Training Backup Switch (VTABS), which was operating on backup battery power, to provide limited air/ground and ground/ground communications.</p> <p>At 4:35 PM, the Display System Replacement (DSR) was restored.</p> <p>At 4:56 PM, the Direct Access Radar Channel (DARC) was restored and ZID was in DARC only mode.</p> <p>At 5:33 PM, the Central Computer Complex Host (CCCH) was restored and at 6:05 PM, DARC/Host operations resumed. At 6:15 PM, ATC Zero was canceled, and the facility began accepting limited traffic at 23,000 feet (FL 230) and below. At 6:45 PM, the airspace above 24,000 feet (FL 240) was assumed. At 6:55 PM, normal operations resumed with Miles In Trail (MIT) restrictions.</p>							

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			Operations remained on VTABS while the specialists restored the VSCS position by position. At 11:00 PM, the facility transitioned back to VSCS.				
			Operational Support (AOS) personnel provided telephone assistance, and are en route to the facility, ETA 11/1 at 12:30 AM.				
10/31/2000 2151	MESA, AZ FFZ	0	Surface Incident	****	0 hrs 0 mins	10/31/2000	2151
			At 2:51 PM MST, Flight Check 57, Learjet LR60, crossed the hold short line for Rwy 30L without authorization. A Piper PA28, registration number N120ND, was on 1/2 mile final and was sent around. There was no loss of separation reported.				
10/31/2000 1458	JACKSONVILLE, FL ZJX	0	Telecommun ications Outage	CFAD	4 hrs 43 mins	10/31/2000	1941
			No Description Available				
			At 9:58 AM EST, the Air Route Traffic Control Center (ARTCC) experienced the first of four (4) momentary interruptions on the fiber optic ring circuit that carries Radar Data (RDAT), Beacon Data (BDAT), Flight Data Entry and Printout Service (FDAT), Interfacility Data Services (IDAT), and En Route Communication (ECOM) services. The circuit automatically switched to the alternate path via Radio Communications Link (RCL) during each interruption.				
			At 1:33 PM, Miami (ZMA) ARTCC implemented 20 Miles-In-Trail (MIT) restrictions on traffic transitioning the ZMA to ZJX airspace as a precaution. These restrictions were cancelled at 2:17 PM.				
			Specialists contacted MCIW, who reported a momentary hit on a T-1 circuit that cleared immediately. No ticket number was issued. ZJX specialists then contacted Alltel, who advised the fiber optic ring circuit had a history of interruptions due to Bell South performing unauthorized maintenance. At 11:15 AM, the line experienced the second momentary interruption				

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			<p>and MCIW was again notified. At 12:44 and 12:51 PM, the line was interrupted a third and fourth time, causing table overflow conditions in the Central Computer Complex Host (CCCH) due to FDAT and IDAT data retransmissions. ZJX specialists then contacted Bell South directly. At 12:54 PM the system recovered from the last HOST saturation and experienced no more interruptions to NAS services, but did not receive the ALL's WELL message from NAS until 2:41 PM.</p> <p>At 2:30 PM, Bell South advised they had been doing work that caused the interruptions, and the work had been stopped. A follow-up investigation with MCIW has been initiated.</p>				
10/31/2000 1545	NATIONWIDE TELCON	0	Miscellaneous Event	ARTCC	0 hrs 30 mins	10/31/2000	1615
			<p>The National Operations Control Center (NOCC) is maintaining a spreadsheet of scheduled Central Computer Complex Host (CCCH) shutdowns. A review of this spreadsheet revealed that Jacksonville (ZJX) and Houston (ZHU) had maintenance planned on 11/02 other than scheduled certification/maintenance.</p> <p>The NOCC chaired a telcon with ZJX, ZHU, and Atlanta (ZTL) center managers and their corresponding AOS managers, with AOS-10 participation. All issues concerning the shutdowns were addressed with the group. Both ZJX and ZHU have fallback plans in place. ZTL does not foresee any impact from the events at ZJX and ZHU.</p>				
10/31/2000 2212	LOS ANGELES, CA LAXN	0	Facility/Service Outage	ASR	0 hrs 2 mins	10/31/2000	2214
			<p align="center">ASR-9 - STANDARD FACILITY</p> <p>At 2:12 PM PST, the LAXN Airport Surveillance Radar (ASR)-9 auto-detected off. Operations continued using the MODES Secondary Radar (MSEC) service.</p> <p>Specialists at Southern California (SCT) Terminal Radar Approach Control (TRACON) remotely switched to Channel A to restore the service at 2:14 PM. Channel B remains out of service.</p>				

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11/01/2000

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Start time	Ident	Delays	Outage Type	Equipment	Duration	End Date	End time

Tests will occur on the following dates:

Nov 00 - 2-4, 6-18

0100 - 1100Z

Dec 00 - 3, 6, 8, 10, 13, 15, 17, 20, 22, 24, 27, 29, 31

0300 - 0900Z

Jan 01 - 3, 5, 7, 10, 12, 14, 17, 19, 21, 24, 26, 28, 31

0300 - 0900Z

Affected Centers: ZLA, ZAB, ZFW and ZDV

Each test event will be authorized only when the testing agency requests the US NOTAM Office, at 888-876-6826/fax 703-904-4437, to issue the proper Notice To Airmen (NOTAM), 72 hours prior to each test event.

11/01/2000

Loss Of Redundancy Listing

Ident	Facility Type	Location	Start Date/Time	Closed Date/Time	Status
QHZ	ARSR	HORICON, WI	10/29/2000 1800		Continuing
<i>ARSR-2 Ch A failed. A circuit breaker was ordered and received on 10/30. Scheduled installation on 11/1 (the installation requires two specialists)</i>					
LMT	ARSR	KLAMATH FALLS, OR	10/17/2000 1422	10/31/2000 2322	Closed
<i>FPS-67B Ch B failed. Klystron, filament & pulse transformer ordered, received and installed. RTS.</i>					
LAXN	ASR	LOS ANGELES, CA	10/31/2000 2214		Open
<i>ASR-9 Ch B failed. Investigation delayed to morning of 11/1.</i>					
CMH	ASR	COLUMBUS, OH	11/01/2000 0035		Open
<i>ASR-9 Ch B failed. Investigation delayed to 11/1 day watch.</i>					
DAY	ASR	DAYTON, OH	11/01/2000 0700		Open
<i>ASR-9 Ch A failed. Specialists are on site and the investigation continues.</i>					
TLJ	BDAT	TATALINA, AK	10/19/2000 2040		Continuing
<i>Beacon Ch B failed, system maintained by USAF. Beacon receiver on back-order, ETA 11/13.</i>					
QPC	BDAT	HALEYVILLE, AL	10/27/2000 1545	10/31/2000 2010	Closed
<i>ATCBI-3 Ch 1 failed. Replacement cavity assembly ordered, received and installed. RTS.</i>					
DCA	MODES	WASHINGTON, DC	10/19/2000 1535		Continuing
<i>MODES Ch A OTS. Parts replcd, prob cont. Local osc ordrd, recvd. & instl'd. TSO assisted. AOS to be contacted- indications still Local OSC prob</i>					
MEM	MODES	MEMPHIS, TN	11/01/2000 0410	11/01/2000 0545	Closed
<i>MODES Ch B failed. Fine tuned the APG's and RTS.</i>					
STL	PRM	ST LOUIS, MO	10/21/2000 1238	10/31/2000 1252	Closed
<i>PRM Ch 1 failed. Atten rplcd. sys. monitored. 10/21 failed again. W35 attenuator interface cable & ISB rplcd w/AOS asst. Ch 1 placed online for 13 hours. RTS.</i>					

11/01/00

ILS Fac/Service Outage Listing

Ident	Facility Type	Location	Start Date/Time	Closed Date/Time	Status
BDL	ALS	WINDSOR LOCKS, CT	08/21/2000	1130	Continuing
<i>Rwy 06 ALS scheduled OTS 8/21 to 11/17 to replace Approach Lighting System with Sequenced Flashers (ALSF)-1 with a new ALSF-2.</i>					
BNE	ALS	RICHMOND, VA	09/25/2000	1425	Continuing
<i>Rwy 34 ALS CAT II/III unavailable due to failure of high intensity lights and monitoring. Step 5 unavail. High Voltage cable ordered P-1, ETA 11/01.</i>					
LQN	DME	BOSTON, MA	10/21/2000	1900	Continuing
<i>Rwy 22L/04R DME failed F/C due to ident problem. A8 CCA ordered, recvd, & instl'd. Problems w/ alignment persist; AOS assisting via phone.</i>					
VYN	LOC	DAL-FT WORTH, TX	11/01/2000	1200	Continuing
<i>Rwy 18R LOC will be shutdown from 11/01 at 6:00 AM to 11/15 at 6:00 PM, to upgrade the Mark-20 antenna to a 20-element array.</i>					